



REPORT
SOUND TRANSMISSION LOSS TEST NO. TL94-180

CLIENT: FLEETWOOD ALUMINUM PRODUCTS, INC.
TEST DATE: 19 September 1994

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure E90-90, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*. Details of the procedure will be furnished upon request. The test chamber source and receiving room volume are 79.9 and 78 cubic meters respectively. Western Electro-Acoustic Laboratory is accredited by the United States Department of Commerce, National Institute of Standards and Technology under the National Voluntary Accreditation Program (NVLAP) for this test procedure. This test report relates only to the item(s) tested. Any advertising which utilizes this test report or test data must not imply product certification or endorsement by WEAL, NVLAP, NIST or the U.S. Government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was a Fleetwood Aspen 530T Series aluminum horizontal sliding window assembly. The specimen was sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on both sides. According to the manufacturer:

The glazing consisted of 1 inch (25.4 mm) dual glazed units which were 5/16 inch (7.9 mm) laminated glass, 1/2 inch (12.7 mm) air space, and 3/16 inch (4.8 mm) monolithic glass. The weather stripping used on the fixed panel was 230 high 270 back (.230 in. x .270 in.) fin seal on both sides of the top and bottom rails and jamb. 310 high 270 back fin seal was used at the interlock. The operable panel used 230 high 270 back fin seal on both sides of the top and bottom rails and jamb. 500 high 270 back fin seal was used at the interlock.

Both units were glazed into individual frames using a vinyl wrap around gasket. The net outside frame dimensions of the window assembly were 71-1/2 inches (1.82 m) wide by 47-1/2 inches (1.21 m) high. The overall weight of the assembly was 142 lbs. (64.4 kg) for a calculated surface density of 6.02 lbs./ft² (29.4 kg/m²). The two weep holes were open and covered with trap door baffles. The operable portion of the assembly was opened and closed five times immediately prior to the test.

RESULTS OF THE MEASUREMENTS

One-third octave band sound transmission loss values are tabulated on the attached sheet. ASTM minimum volume requirements are met at 125 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E-413 was STC-36.

Approved:

Respectfully submitted,
Western Electro-Acoustic Laboratory, Inc.

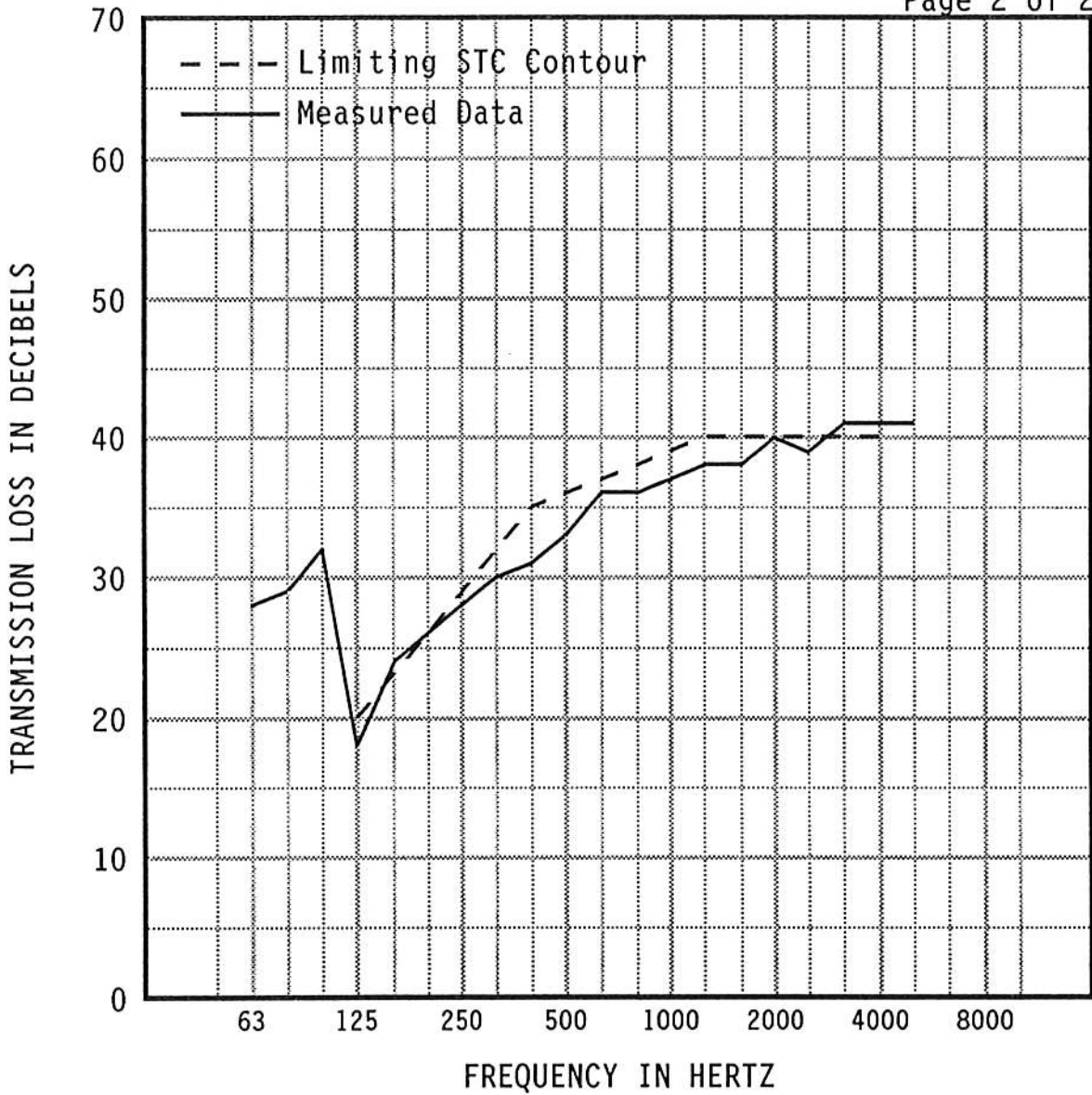
Jose C. Ortega

Gary E. Mange



WESTERN ELECTRO-ACOUSTIC LABORATORY, INC.

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1/3 OCT BND CNTR	FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB		28	29	32	18	24	26	28	30	31	33
95% Confidence in dB		3.54	2.25	2.82	2.90	1.50	1.34	0.90	0.85	0.68	0.65
deficiencies					(2)		(0)	(1)	(2)	(4)	(3)
1/3 OCT BND CNTR	FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB		36	36	37	38	38	40	39	41	41	41
95% Confidence in dB		0.54	0.45	0.42	0.47	0.42	0.37	0.30	0.31	0.43	0.46
deficiencies		(1)	(2)	(2)	(2)	(2)	(0)	(1)			

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37	30

Specimen Area: 23.585 sq.ft.
 Temperature: 74.1 deg. F
 Relative Humidity: 56 %
 Test Date: 19 September 1994

STC
36
(22)